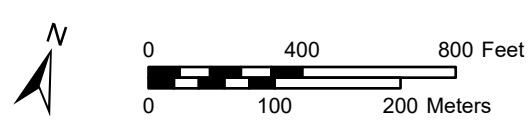
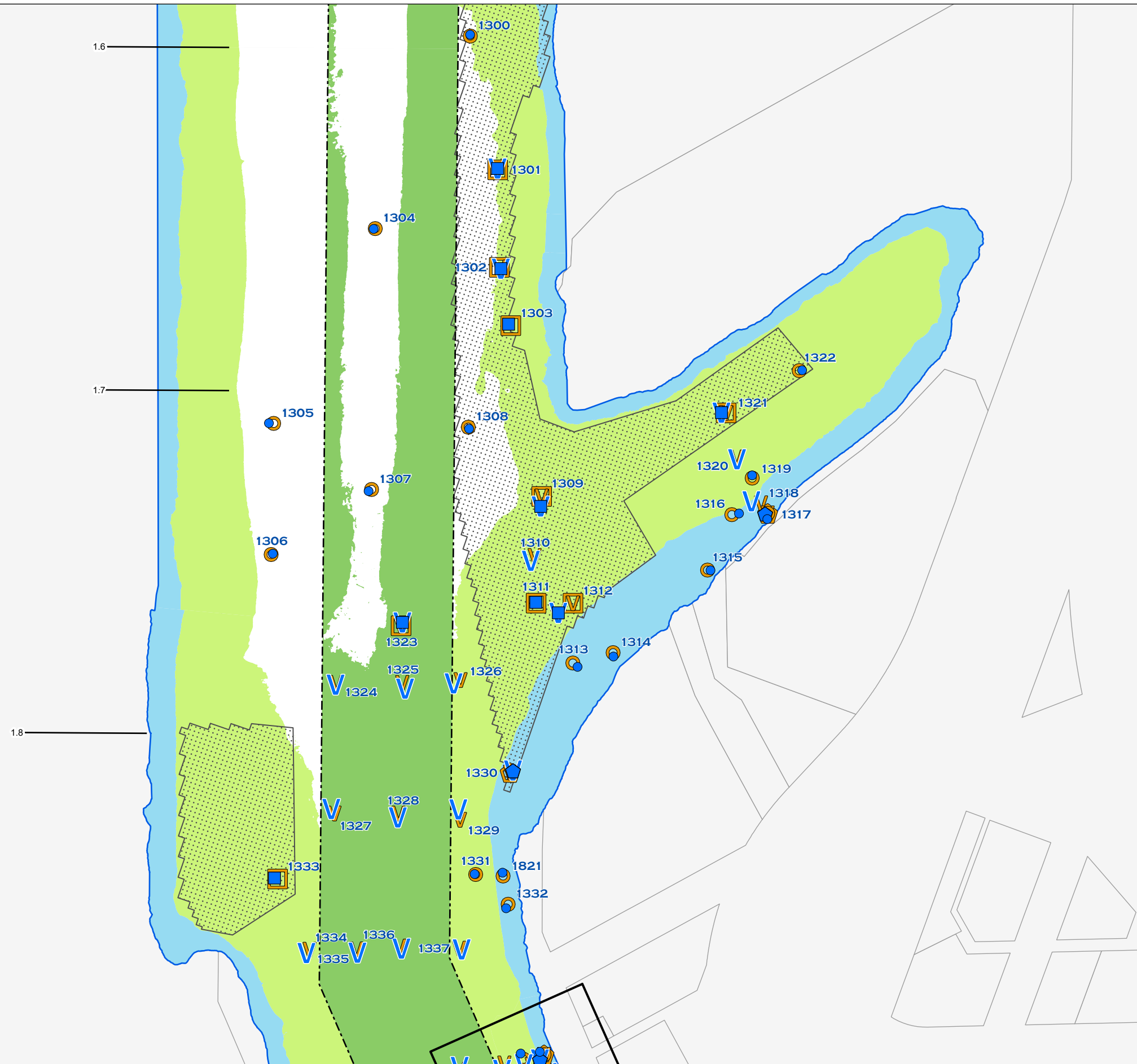
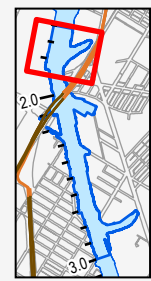


Prepared by craigh_3/5/2025: W:\Projects\Duwamish_AOC\GIS\Maps and Analyses\Phase 2\Field Work\Field Work.aprx





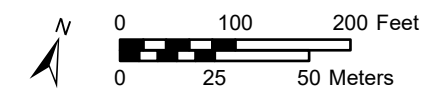
Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ◆ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ◇ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

■ Recovery Category 1
 ■ Early Action Area
 ■ Intertidal area
 ■ Potential vessel scour area
 ■ Shoal area
 ■ Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
 ■ Not covered by bathymetric survey
 ■ Bridge footing
 ■ King Co tax parcel
 --- Federal Navigation Channel
 — River mile



Map 2a. Phase II PDI sediment sampling locations (2024) target and actual, RM 1.6 to RM 1.85

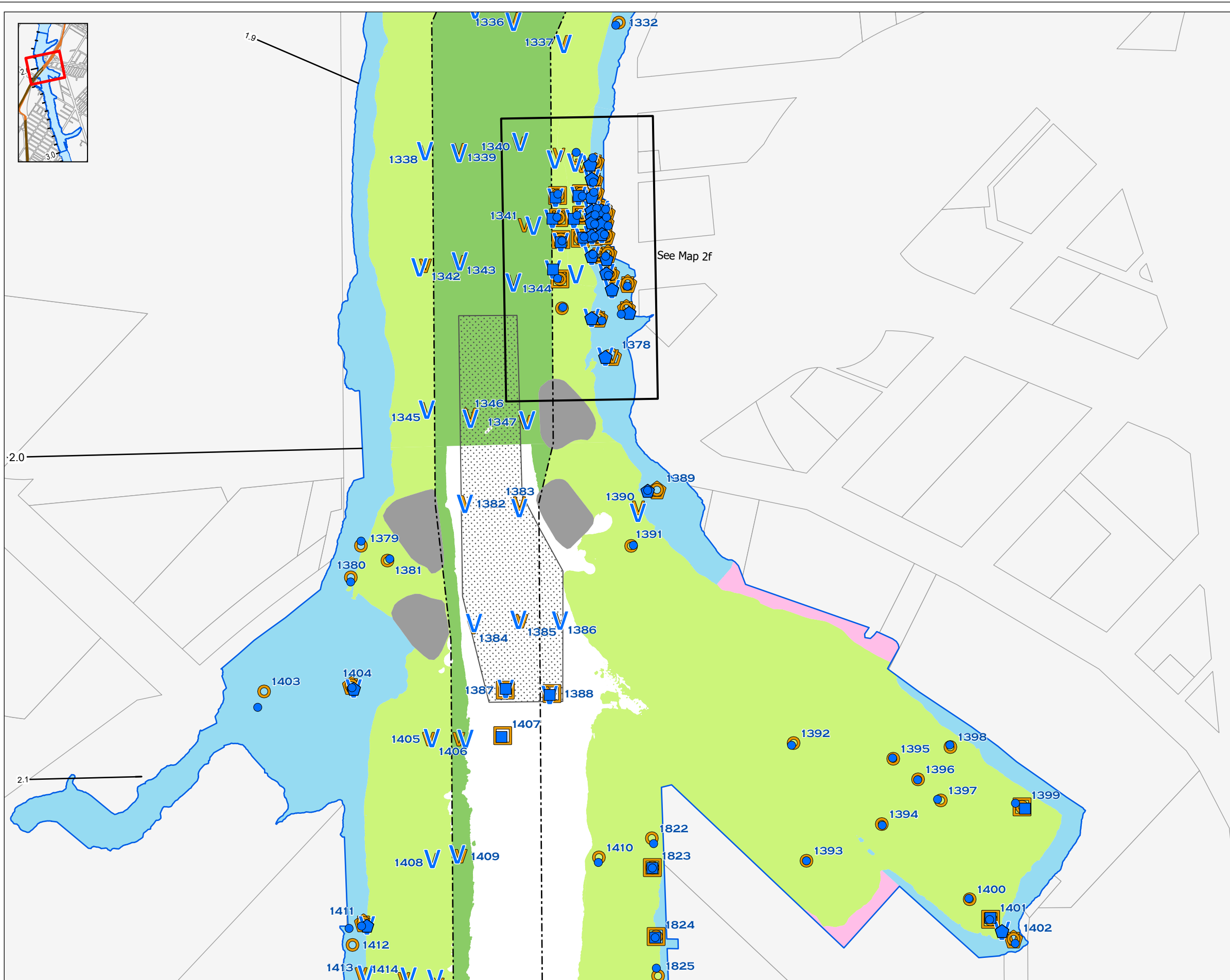
PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh_3/5/2025: W:\Projects\Duwamish_AOC\GIS\Maps and Analyses\Phase 2\Field Work\Map 2 7558 Phase II data package map - targets v actuals



Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- V Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- V Vertical extent core

- ▨ Recovery Category 1
- Early Action Area
- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- King Co tax parcel
- Federal Navigation Channel
- River mile



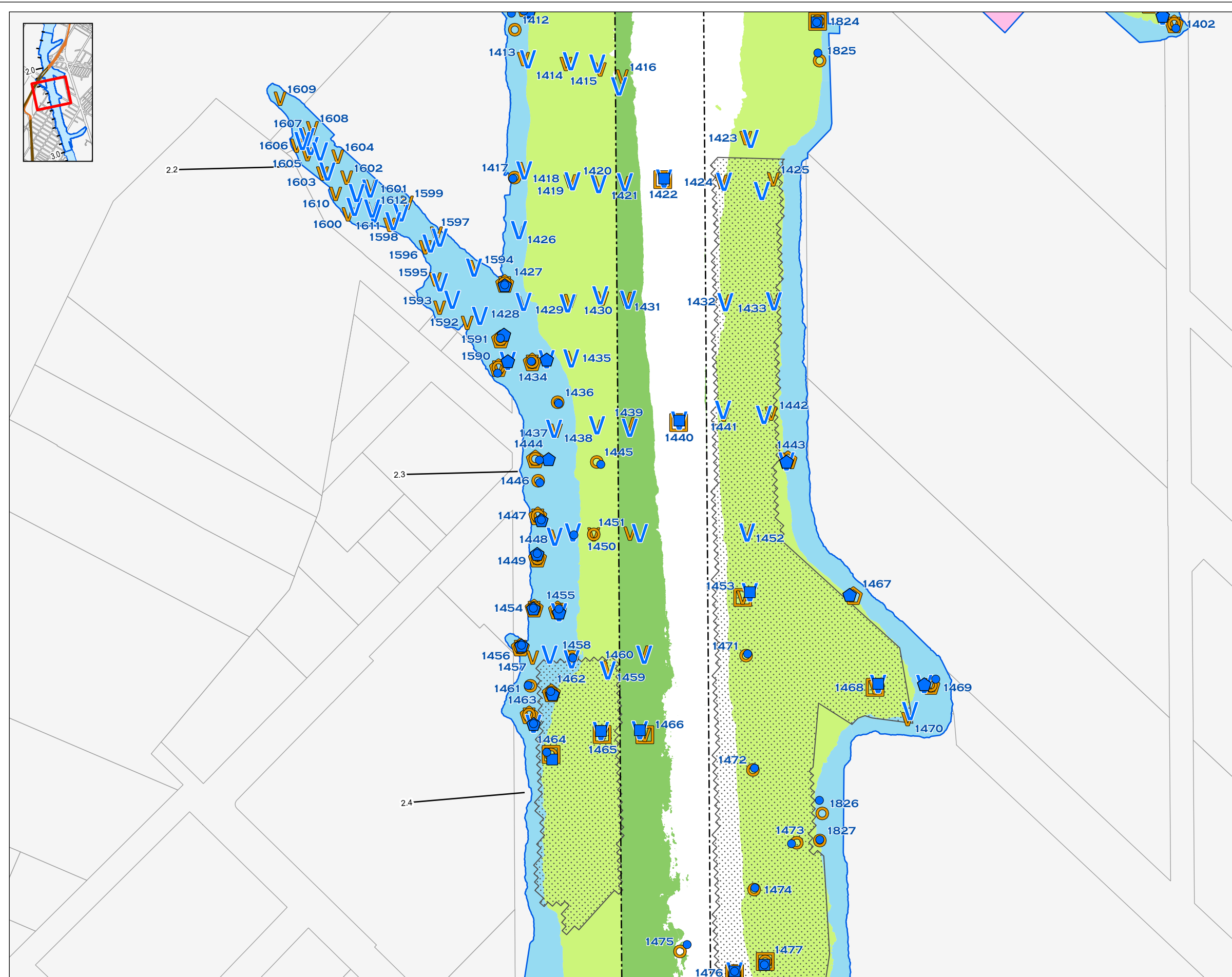
Map 2b. Phase II PDI sediment sampling locations (2024) target and actual, RM 1.85 to RM 2.15

PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2025

Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh_3/5/2025: W:\Projects\Duwamish_AOC\GIS\Maps and Analyses\Phase 2\Field Work\Map 2_7558 Phase II data package map - targets v actuals



Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

- ▨ Recovery Category 1
- Early Action Area
- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- King Co tax parcel
- Federal Navigation Channel
- River mile



Map 2c. Phase II PDI sediment sampling locations (2024) target and actual, RM 2.15 to RM 2.45

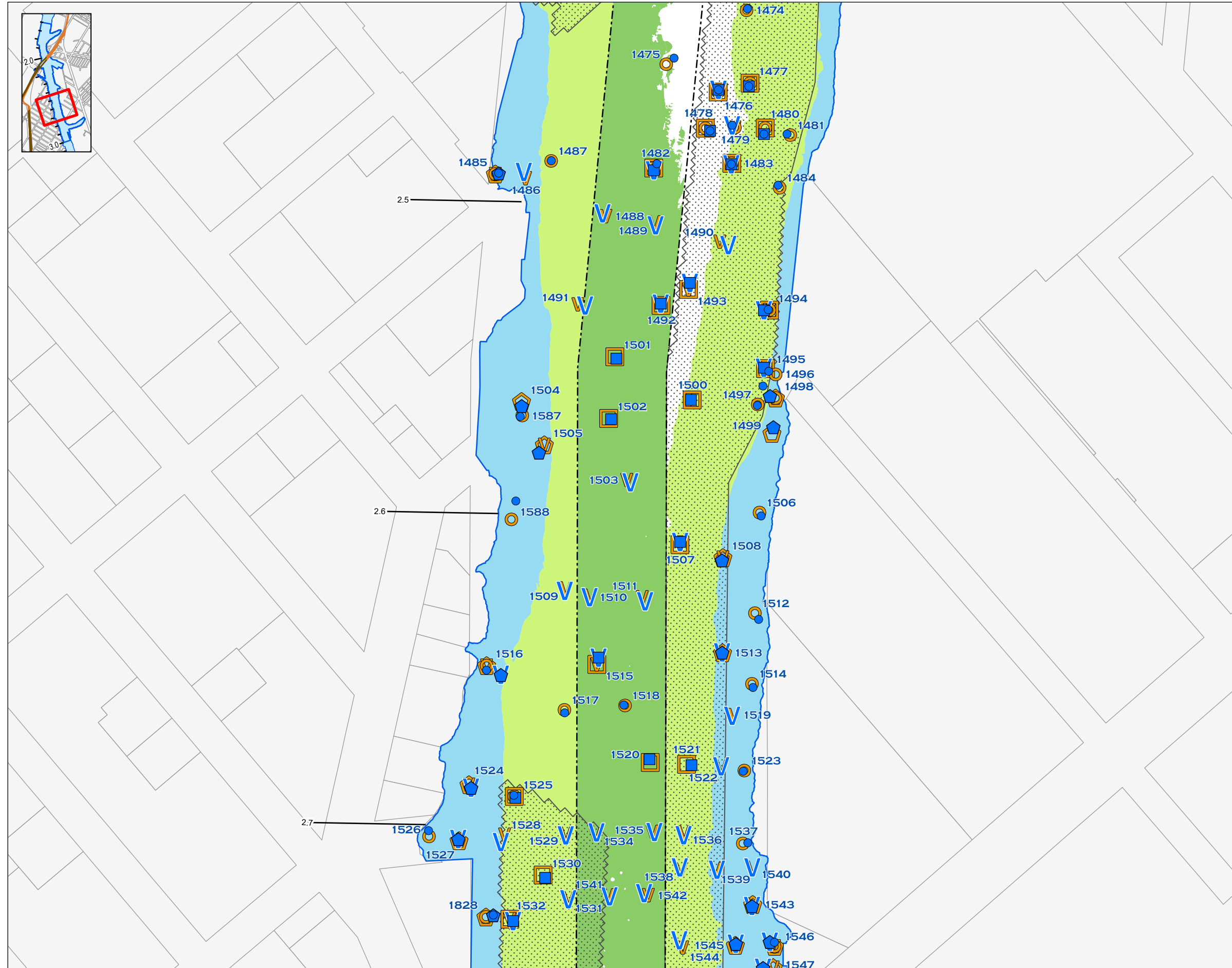
PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh_3/5/2025: W:\Projects\Duwamish_AOC\GIS\Maps and Analyses\Phase 2\Field Work\Map 2 7558 Phase II data package map - targets v actuals



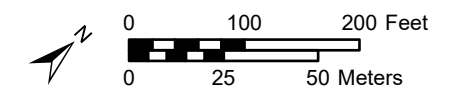
Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- ⬠ 0-60 cm sediment core
- ∇ Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- ⬠ 0-60 cm sediment core
- ∇ Vertical extent core

■ Recovery Category 1
 ■ Early Action Area
 ■ Intertidal area
 ■ Potential vessel scour area
 ■ Shoal area
 ■ Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
 ■ Not covered by bathymetric survey
 ■ Bridge footing
 ■ King Co tax parcel
 --- Federal Navigation Channel
 — River mile



Map 2d. Phase II PDI sediment sampling locations (2024) target and actual, RM 2.45 to RM 2.75

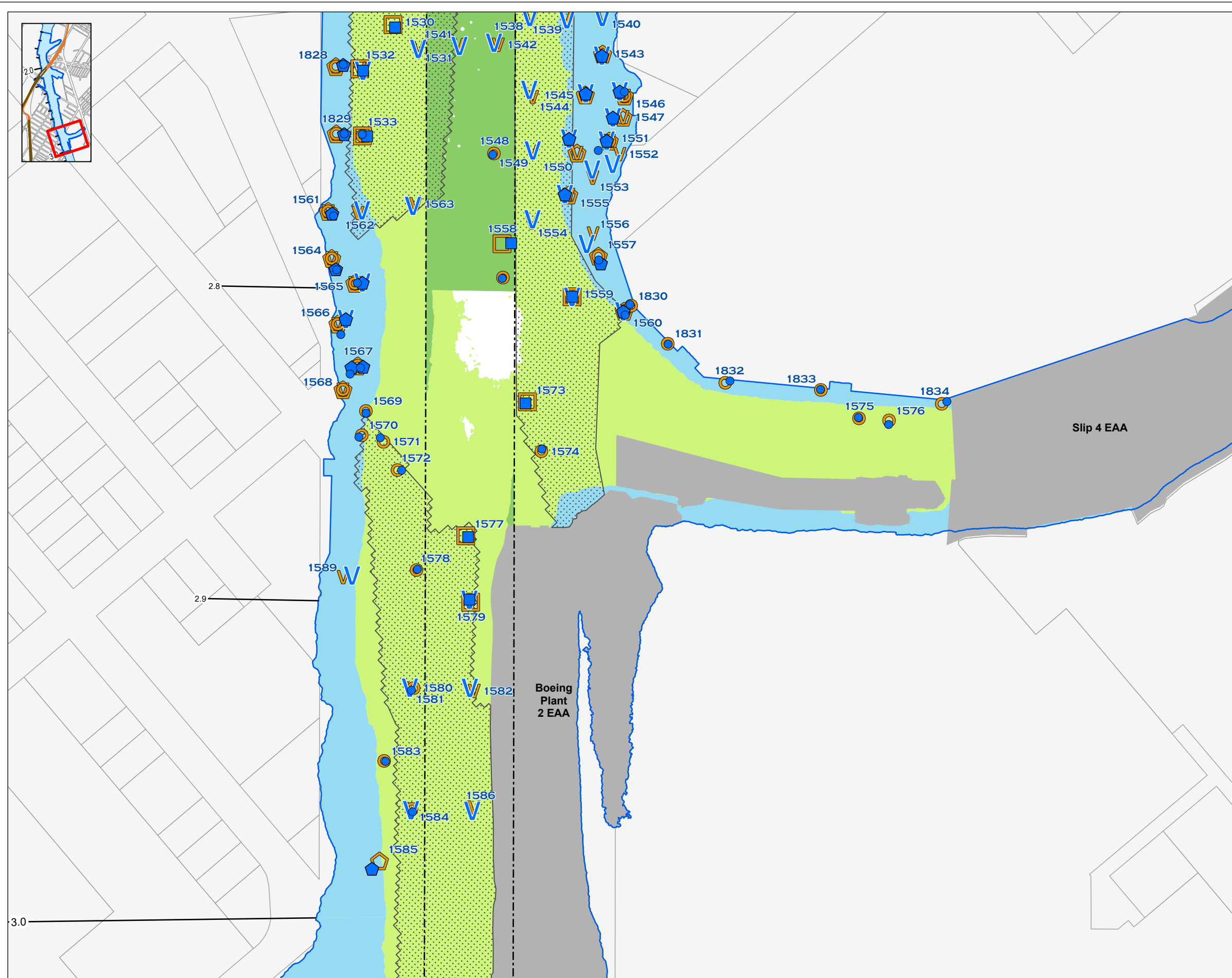
PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh_3/5/2025: W:\Projects\Duwamish_AOC\GIS\Maps and Analyses\Phase 2\Field Work\Map 2 7568 Phase II data package map - targets v actuals



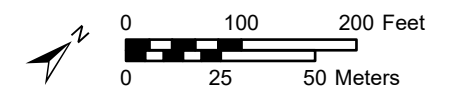
Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- ⬠ 0-60 cm sediment core
- ∇ Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- ⬠ 0-60 cm sediment core
- ∇ Vertical extent core

■ Recovery Category 1
 ■ Early Action Area
 ■ Intertidal area
 ■ Potential vessel scour area
 ■ Shoal area
 ■ Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
 ■ Not covered by bathymetric survey
 ■ Bridge footing
 ■ King Co tax parcel
 --- Federal Navigation Channel
 — River mile

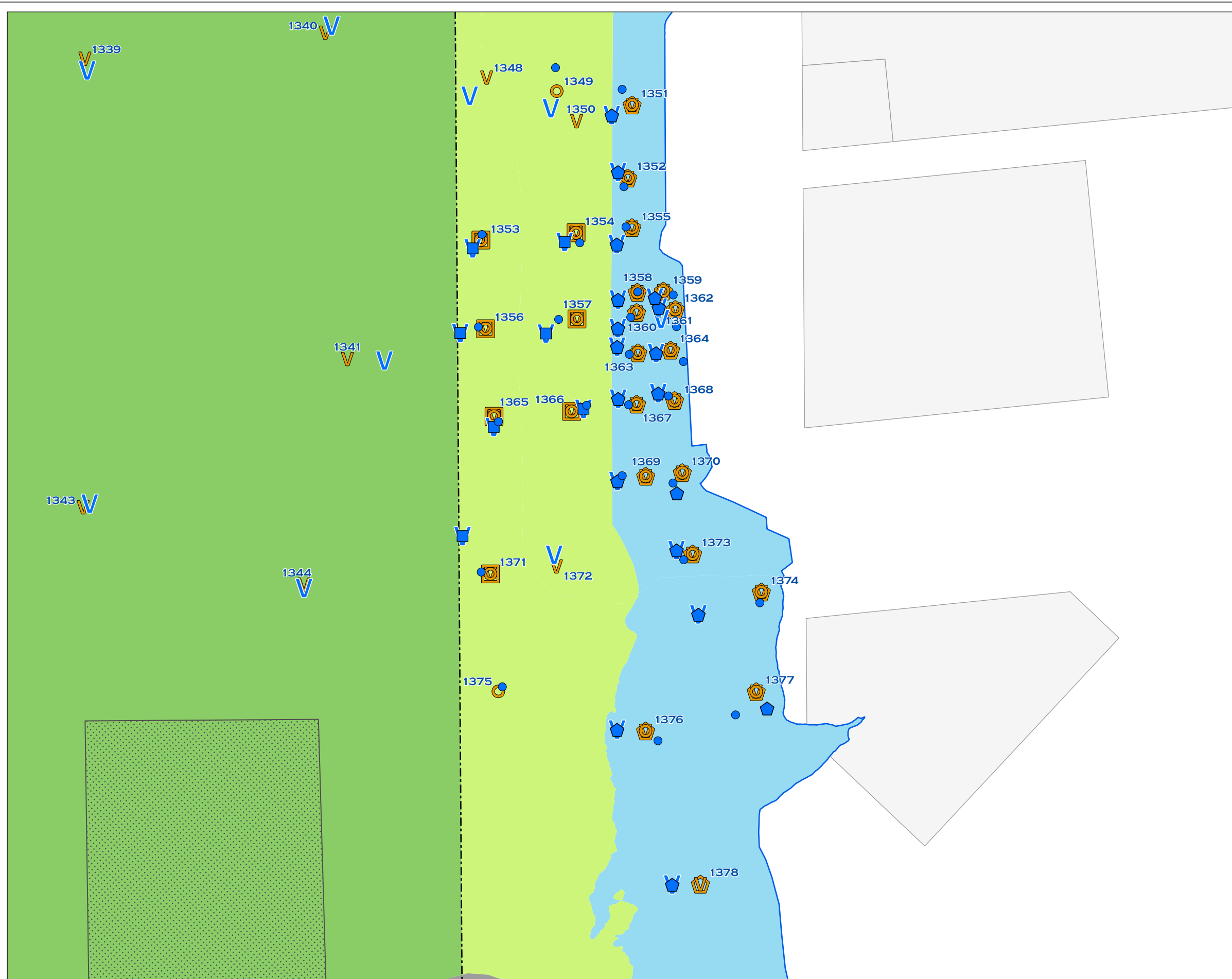


Map 2e. Phase II PDI sediment sampling locations (2024) target and actual, RM 2.75 to RM 3.0

PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH **DRAFT** MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company




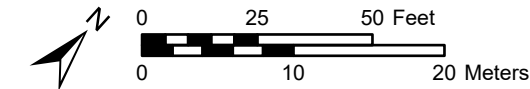
Actual PDI Phase II sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

Phase II target sampling locations

- 0-10 cm sediment grab
- ⬠ 0-45 cm sediment core
- 0-60 cm sediment core
- ∇ Vertical extent core

- ▨ Recovery Category 1
- Intertidal area
- Potential vessel scour area
- Shoal area
- Bridge footing
- King Co tax parcel
- Federal Navigation Channel

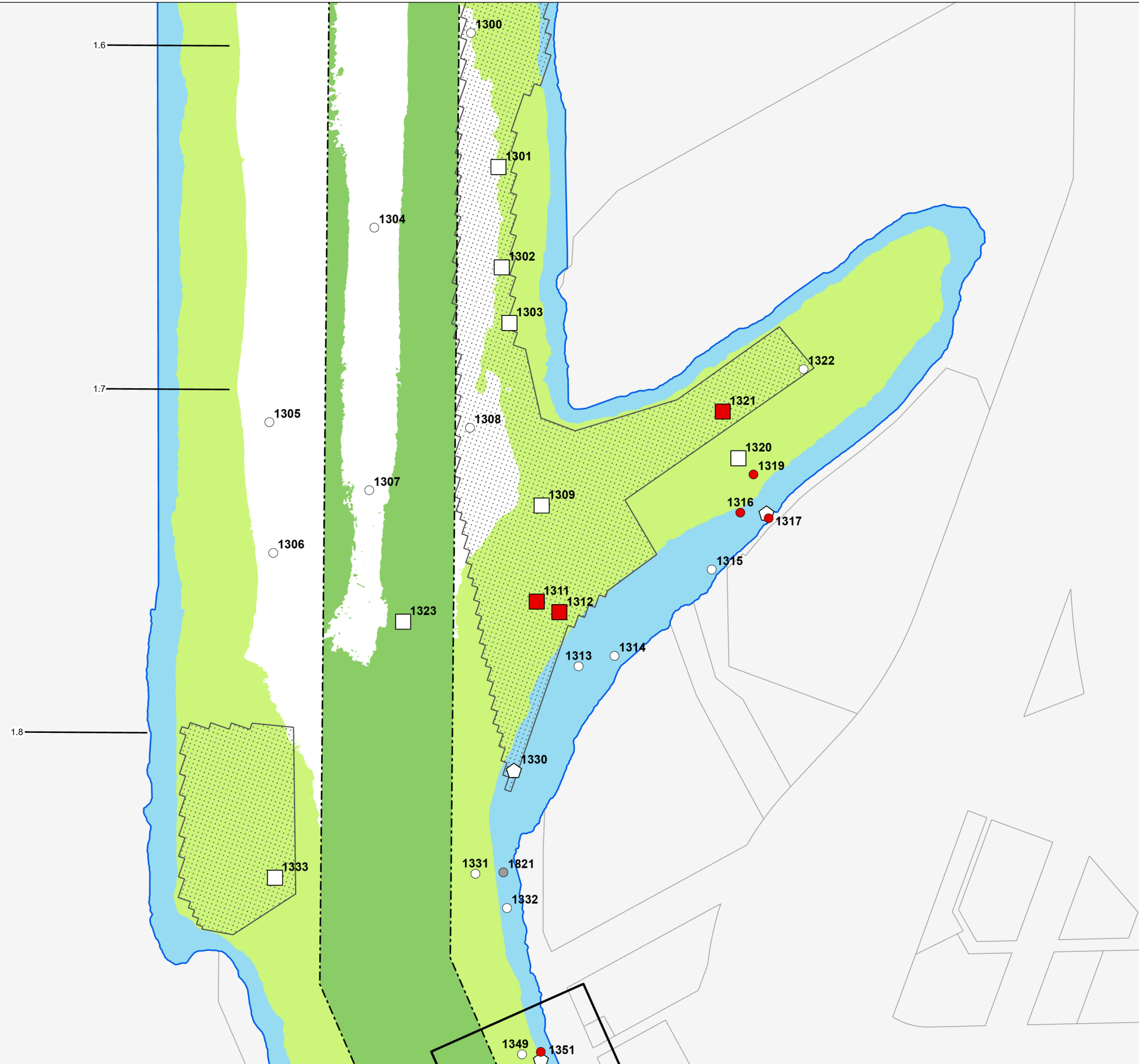
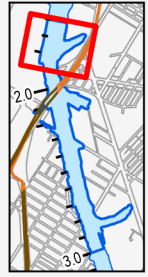
Map 2f. Phase II PDI sediment sampling locations (2024) target and actual, Duwamish Marine Center

PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH **DRAFT** MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh, 3/10/2025, W:\Projects\Duwamish ACCS\GIS\Maps and Analyses\Phase 2\Field Work\Map 3 7558 Phase II data package map - exceedance status



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

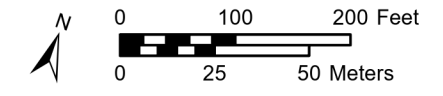
0-45 cm sediment core

- ◆ Exceeds RAL
- ◇ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

- ▨ Recovery Category 1
- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- Early Action Area
- King Co tax parcel
- Federal Navigation Channel
- River mile



Map 3a. Phase II PDI sediment sampling locations (2024) and RAL exceedances, RM 1.6 to RM 1.85

PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

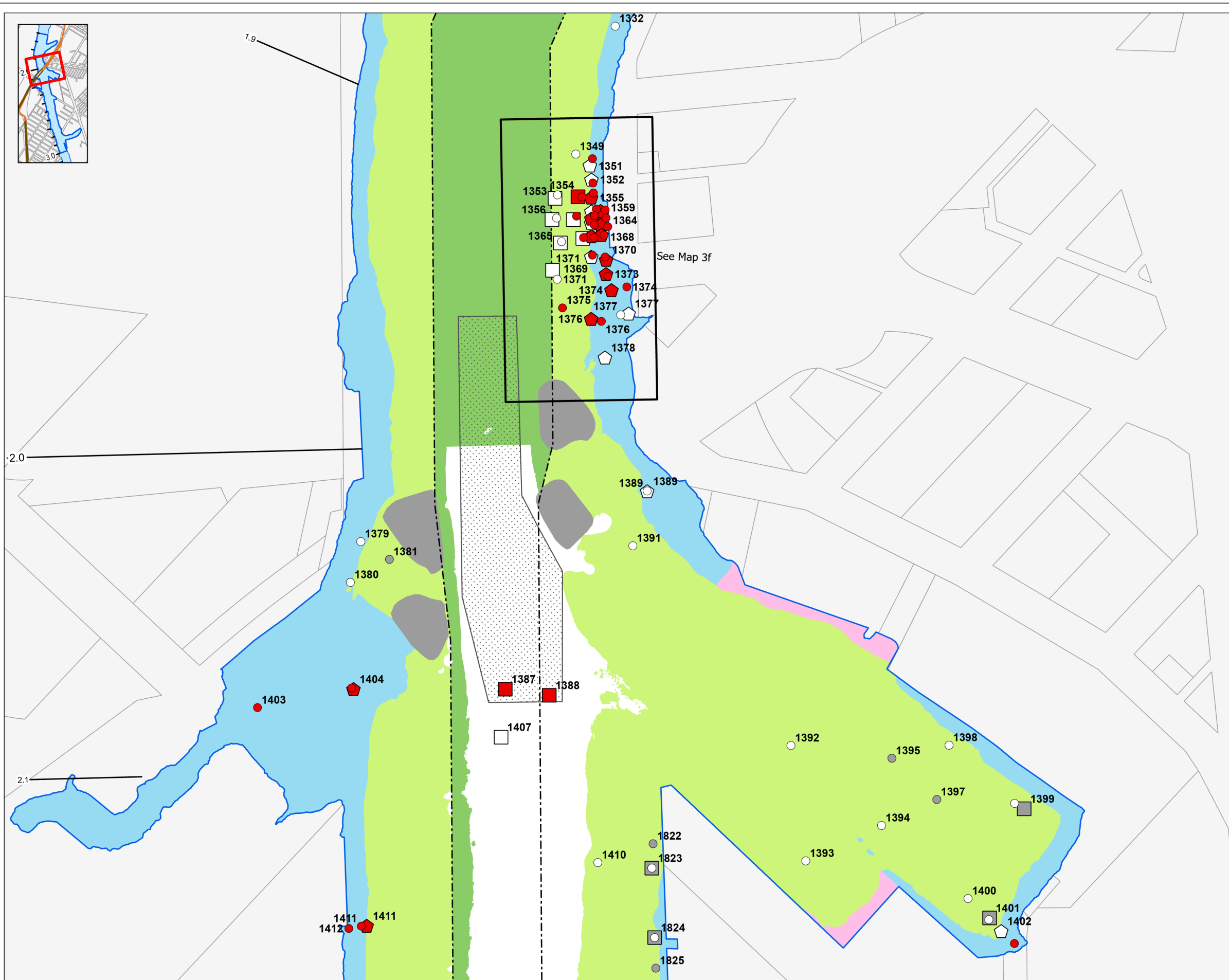
DRAFT
MARCH 10, 2023

Windward environmental LLC

ANCHOR QEA

Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh, 3/10/2025, W:\Projects\Duwamish ACCS\GIS\Maps and Analyses\Phase 2\Field Work\Map 3 7558 Phase II data package map - exceedance status



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

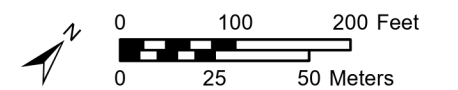
0-45 cm sediment core

- ◆ Exceeds RAL
- ◇ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed
- ▨ Recovery Category 1

- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- Early Action Area
- King Co tax parcel
- Federal Navigation Channel
- River mile



Map 3b. Phase II PDI sediment sampling locations (2024) and RAL exceedances, RM 1.85 to RM 2.15

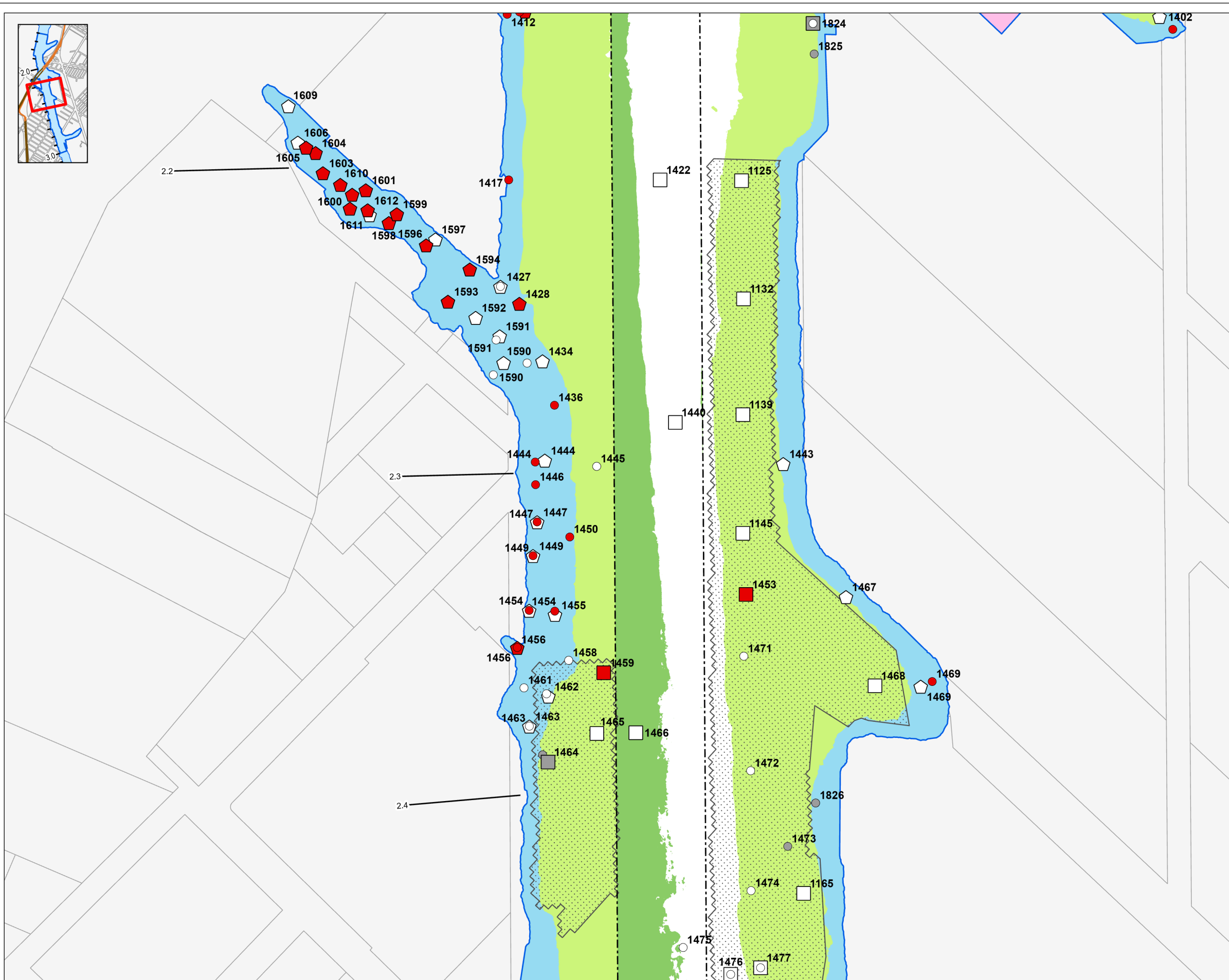
PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2023

Windward environmental LLC

ANCHOR QEA

Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

0-45 cm sediment core

- ◆ Exceeds RAL
- ◊ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed
- ▨ Recovery Category 1

■ Intertidal area
 ■ Potential vessel scour area
 ■ Shoal area
 ■ Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
 ■ Not covered by bathymetric survey
 ■ Bridge footing
 ■ Early Action Area
 ■ King Co tax parcel
 --- Federal Navigation Channel
 — River mile



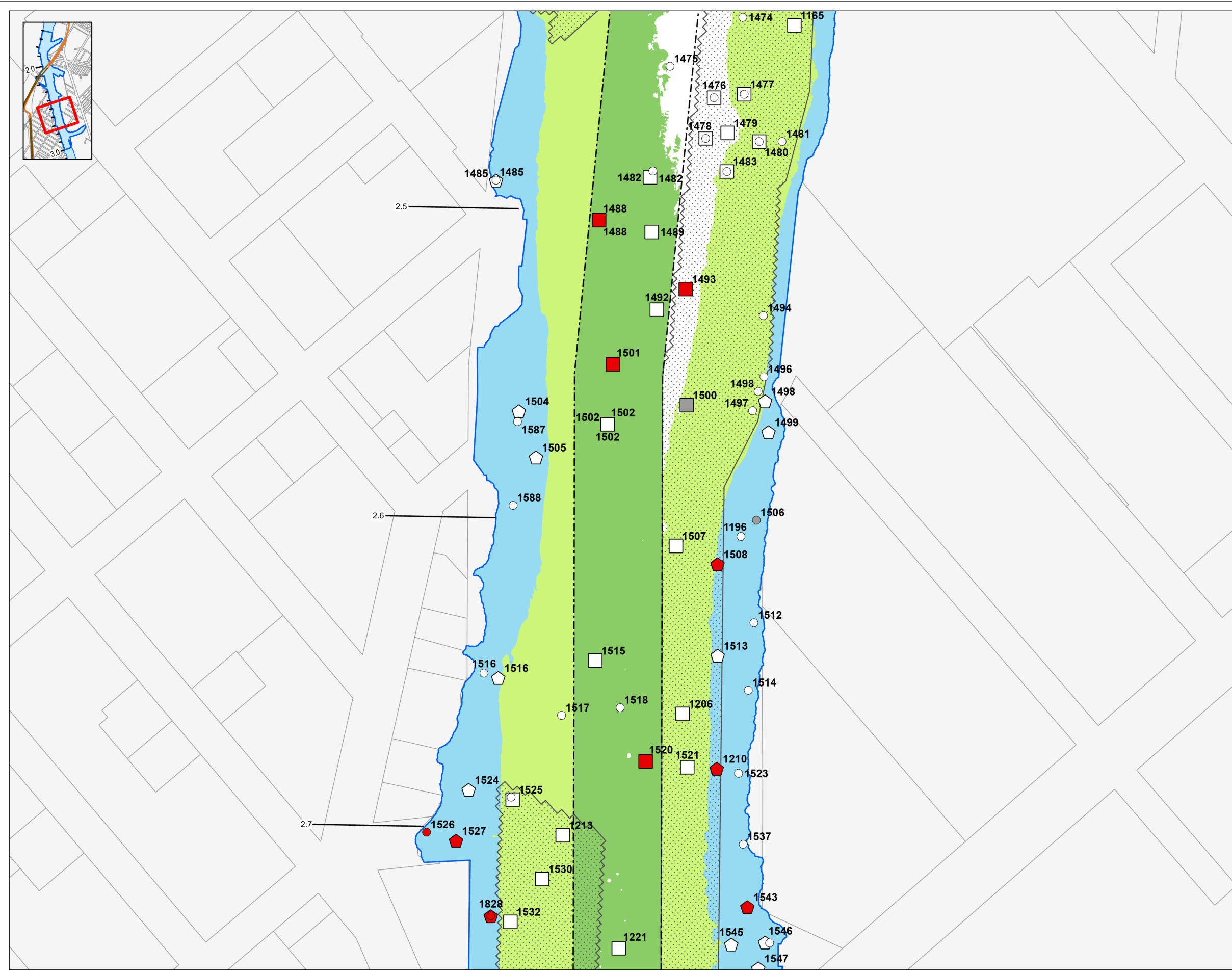
Map 3c. Phase II PDI sediment sampling locations (2024) and RAL exceedances, RM 2.15 to RM 2.45

PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2023



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

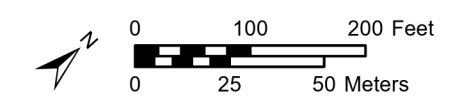
0-45 cm sediment core

- ⬠ Exceeds RAL
- ⬠ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

- ⋯ Recovery Category 1
- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- Early Action Area
- King Co tax parcel
- Federal Navigation Channel
- River mile



Map 3d. Phase II PDI sediment sampling locations (2024) and RAL exceedances, RM 2.45 to RM 2.75

PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

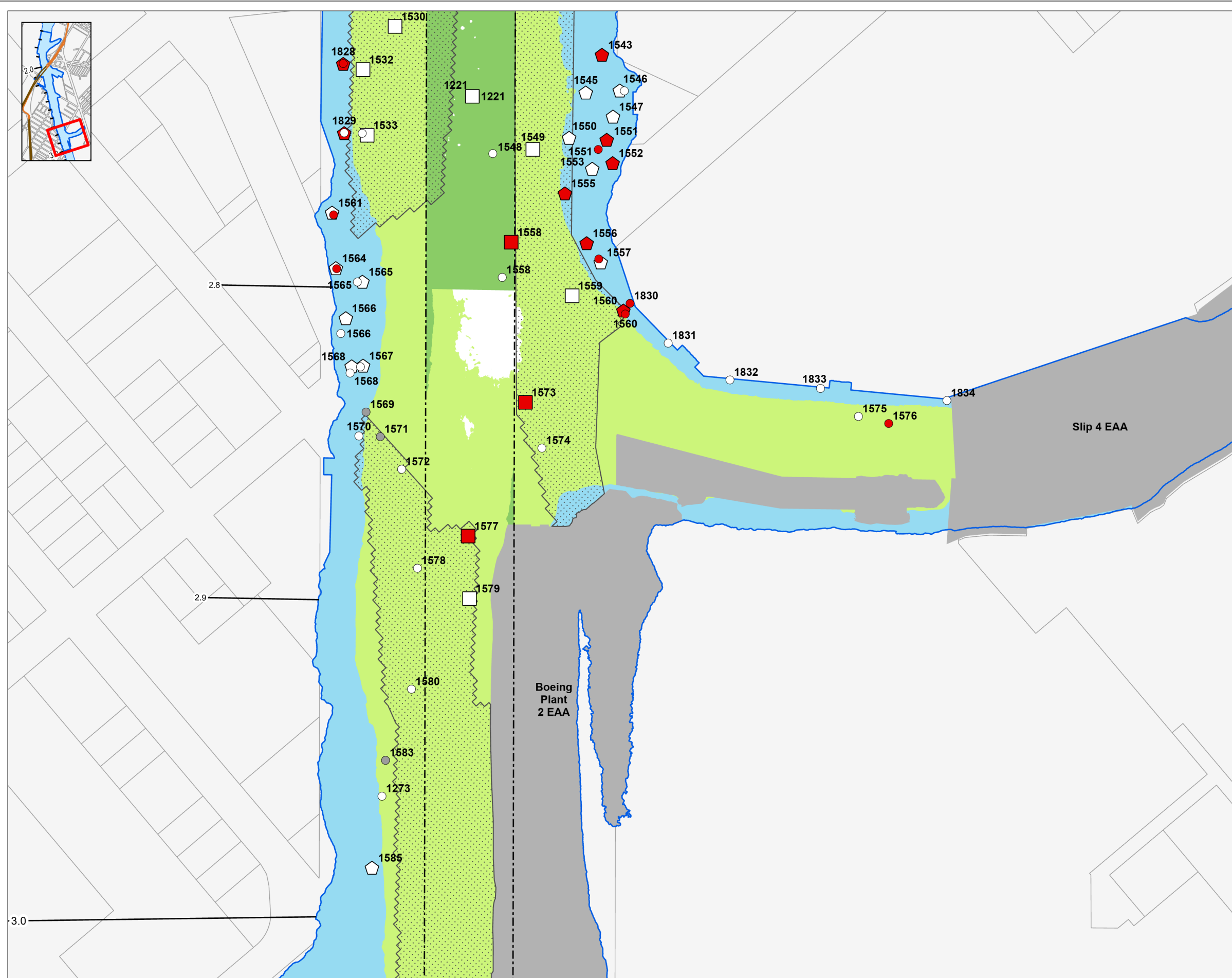
DRAFT
MARCH 10, 2023

Windward environmental LLC

ANCHOR QEA

Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Prepared by craigh, 3/10/2025, W:\Projects\Duwamish ACCS\GIS\Maps and Analyses\Phase 2\Field Work\Field Work.aprx\Map 3 7558 Phase II data package map - exceedance status



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

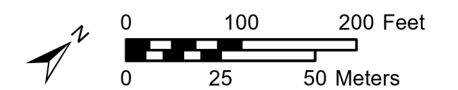
0-45 cm sediment core

- ◆ Exceeds RAL
- ◇ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

- ▨ Recovery Category 1
- Intertidal area
- Potential vessel scour area
- Shoal area
- Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC
- Not covered by bathymetric survey
- Bridge footing
- Early Action Area
- King Co tax parcel
- Federal Navigation Channel
- River mile



Map 3e. Phase II PDI sediment sampling locations (2024) and RAL exceedances, RM 2.75 to RM 3.0

PRE-DESIGN INVESTIGATION PHASE II DATA
PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2023



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company



PDI Phase II sampling location

0-10 cm sediment grab

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

0-45 cm sediment core

- ⬠ Exceeds RAL
- ⬠ Does not exceed RAL

0-60 cm sediment core

- Exceeds RAL
- Does not exceed RAL
- Not analyzed

▨ Recovery Category 1

■ Intertidal area

■ Potential vessel scour area

■ Shoal area

□ Below the navigation depth in the FNC and below potential vessel scour depth outside the FNC

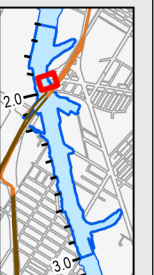
■ Not covered by bathymetric survey

■ Bridge footing

□ King Co tax parcel

--- Federal Navigation Channel

— River mile



Map 2f. Phase II PDI sediment sampling locations (2024) and RAL exceedances, Duwamish Marine Center

PRE-DESIGN INVESTIGATION PHASE II DATA PACKAGE FOR THE LDW MIDDLE REACH

DRAFT
MARCH 10, 2025



Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company